

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
30 June 2005 (30.06.2005)

PCT

(10) International Publication Number
WO 2005/058960 A1

(51) International Patent Classification⁷: **C07K 14/80**,
C12N 15/67, G01N 33/50, C12N 5/10

Biosciences UK Limited, The Maynard Centre, Forest
Farm Estate, Cardiff CF14 7YT (GB).

(21) International Application Number:
PCT/GB2004/005317

(74) Agents: **FRANKS, Barry** et al.; Amersham plc, Amer-
sham Place, Little Chalfont, Buckinghamshire HP7 9NA
(GB).

(22) International Filing Date:
17 December 2004 (17.12.2004)

(81) Designated States (*unless otherwise indicated, for every
kind of national protection available*): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0329353.7 19 December 2003 (19.12.2003) GB

(84) Designated States (*unless otherwise indicated, for every
kind of regional protection available*): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicant (*for all designated States except US*): **AMER-
SHAM BIOSCIENCES UK LIMITED** [GB/GB]; Amer-
sham Place, Little Chalfont, Buckinghamshire HP7 9NA
(GB).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **STUBBS, Simon**,
Laurence, John [GB/GB]; Amersham Biosciences UK
Limited, The Maynard Centre, Forest Farm Estate, Cardiff
CF14 7YT (GB). **FRANCIS, Michael, John** [GB/GB];
Amersham Biosciences UK Limited, The Maynard Centre,
Forest Farm Estate, Cardiff CF14 7YT (GB). **CUSHING**,
Adrian [GB/GB]; Amersham Biosciences UK Limited,
The Maynard Centre, Forest Farm Estate, Cardiff CF14
7YT (GB). **ISMAIL, Rahman, Aziz** [GB/GB]; Amersham

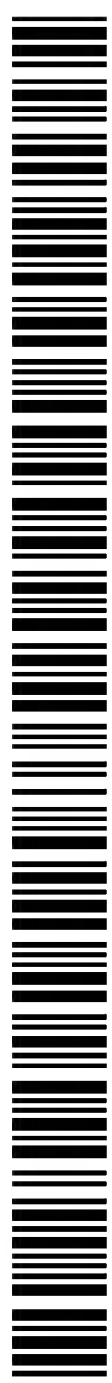
Published:

— with international search report

*For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.*

(54) Title: CYTOCHROME C PROTEIN AND ASSAY

(57) Abstract: The present invention relates to a cytochrome c-reporter fusion protein construct comprising a modified cytochrome c protein which targets the mitochondria and has a reduced ability to induce apoptosis in a living cell. The invention also relates to nucleic acid constructs encoding such protein fusions and cells stably transfected with such constructs. The stably transfected cells of the invention can be used in assays to detect apoptosis.



WO 2005/058960 A1